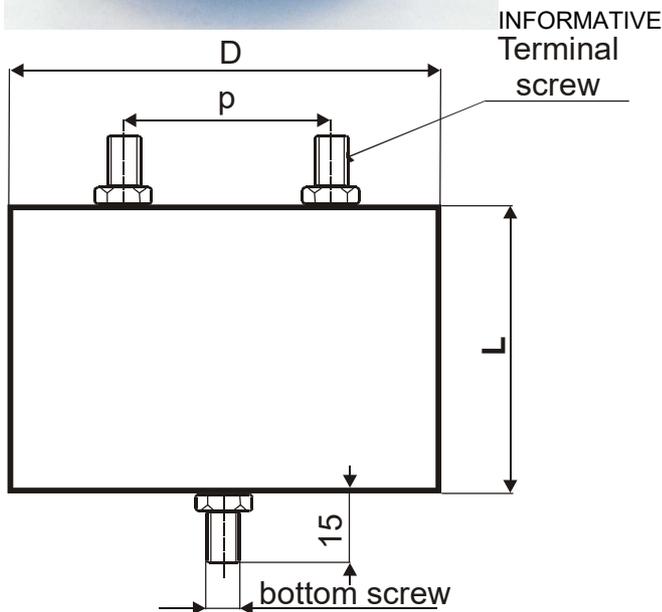


## KPI 300-249 CAPACITORS FOR AC HIGH PULSE LOADING



Capacit. $C_R$ [ $\mu$ F]	Dimensions [mm]			
	D	L	p	Terminal screws
2	75	100	40	M8

Other Capacitance on request

### Construction:

Metal electrodes, polypropylene film dielectric, Non-inductive, self-healing construction, Plastic cylindrical flame retardant case, with bottom screw M10x15 available

### Applications:

High pulse loading, high current and other AC applications

### Technical data

**Rated voltage  $U_R$ :** 3000V DC

Rated voltage is the max. DC or peak voltage, for which the capacitor is designed.

If the capacitor works with the DC and also super-imposed AC voltage  $U_{AC}$ , the sum of DC and the amplitude of AC must not exceed the  $U_R$

**Max permissible AC voltage:** 1000V 50/60Hz, If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$\text{Max. } U_{AC}(f) = \sqrt{\frac{P_L}{2 \pi f C_R \times \text{tg} \delta}}$$

**Rated capacitance:** up to 10 $\mu$ F

**Tolerance:**  $\pm 10\%$ ,  $\pm 5\%$ ,

**Dissipation factor  $\text{Tg} \delta$ :**  $< 0,001$  at 1kHz and  $+25^\circ\text{C}$

**ESR :**  $< 5\text{m}\Omega$  at 10kHz and  $+25^\circ\text{C}$

**Insulation resistance  $R_{is}$ :**  $> 1000$  [ $\text{M}\Omega$ ]

**Operating temperature range:**  $-55 \div +85^\circ\text{C}$

The highest permissible capacitor temperature at the hottest point of the case must not exceed  $+85^\circ\text{C}$ .

**Max . permitted dissipation power of the capacitor  $P_L$ :** depend on the construction of the capacitor and the cooling conditions, see table.

**Test voltage between terminals:**  $1,25 \times U_R$ , 1min. at  $+25^\circ\text{C}$

All capacitors are tested by the routine test by the producer

### Protection against Over-voltages:

The capacitors are self-healing and regenerate themselves after occasional breakdowns. The capacitor remains fully functional after the breakdown.

**Permitted Over-voltages in working conditions:**

$1,1 \times U_R$  max. 10% of the service period

If the Over-voltages exceed the permissible values above, the capacitor might have been destroyed.

**Test voltage between terminals and case:**

3000VDC, 1min. at  $+25^\circ\text{C}$

**Max. repetitive rate of voltage rise  $dU/dt$ :**

$< 1000\text{V}/\mu\text{sec}$  at  $U_R$  and  $+25^\circ\text{C}$

**Max. peak current  $I_p$ :**  $< C_R \times dU/dt$

**Related standards:** ČSN EN 60384-1

**Marking for purchase ordering:**

KPI300-249  $2\mu\text{F} \pm 10\%$  3000VDC/1000V 50Hz

**Warning!** The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, pleas, read carefully this technical data-sheet.